

=> d his nofile

(FILE 'HOME' ENTERED AT 16:16:03 ON 29 JAN 2008)

FILE 'HCAPLUS' ENTERED AT 16:16:17 ON 29 JAN 2008  
L1           1 SEA ABB=ON PLU=ON US20060051305/PN  
              D IBIB AB IT

FILE 'REGISTRY' ENTERED AT 16:17:17 ON 29 JAN 2008  
L2           1 SEA ABB=ON PLU=ON LIGNIN PEROXIDASE/CN  
              D RN  
L3           1 SEA ABB=ON PLU=ON 42613-30-9/RN  
L4           1 SEA ABB=ON PLU=ON L2 OR L3  
L5           1 SEA ABB=ON PLU=ON VERATRYL ALCOHOL/CN  
L6           1 SEA ABB=ON PLU=ON 93-03-8/RN  
L7           1 SEA ABB=ON PLU=ON L5 OR L6  
L8           1 SEA ABB=ON PLU=ON HYDROGEN PEROXIDE/CN  
L9           1 SEA ABB=ON PLU=ON 7722-84-1/RN  
L10          1 SEA ABB=ON PLU=ON L8 OR L9  
L11          1 SEA ABB=ON PLU=ON TRANSCUTOL/CN  
L12          1 SEA ABB=ON PLU=ON 111-90-0/RN  
L13          1 SEA ABB=ON PLU=ON L11 OR L12  
L14          3 SEA ABB=ON PLU=ON BUTYLENE GLYCOL/CN  
L15          1 SEA ABB=ON PLU=ON 25265-75-2  
L16          1 SEA ABB=ON PLU=ON MANGANESE PEROXIDE/CN  
L17          1 SEA ABB=ON PLU=ON 101395-74-8/RN  
L18          1 SEA ABB=ON PLU=ON L16 OR L17

FILE 'HCAPLUS' ENTERED AT 16:23:54 ON 29 JAN 2008  
L19          1763 SEA ABB=ON PLU=ON L4  
L20          1746 SEA ABB=ON PLU=ON (LIGNIN PEROXIDASE OR LIGNIN PEROXIDASE  
              ENZYME#)  
L21          52 SEA ABB=ON PLU=ON LIGNIN (W)MODIF? ENZYME OR LIGNIN MODIF?  
              (W) ENZYME  
L22          0 SEA ABB=ON PLU=ON LIGNIN OXIDOREDUCTASE  
L23          38 SEA ABB=ON PLU=ON ISOENZYME (W) (H1 OR H2)  
L24          1159 SEA ABB=ON PLU=ON L7  
L25          671 SEA ABB=ON PLU=ON L24 AND VERATRYL ALCOHOL  
L26          107664 SEA ABB=ON PLU=ON L10  
L27          101674 SEA ABB=ON PLU=ON L10 AND HYDROGEN PEROXIDE  
L28          52 SEA ABB=ON PLU=ON L18  
L29          51 SEA ABB=ON PLU=ON L28 AND MANGANESE PEROXIDE  
L30          3621 SEA ABB=ON PLU=ON L13  
L31          380 SEA ABB=ON PLU=ON L13 AND TRANSCUTOL  
L32          11695 SEA ABB=ON PLU=ON BUTYLENE GLYCOL OR L15  
L33          12051 SEA ABB=ON PLU=ON L31 OR L32  
L34          101719 SEA ABB=ON PLU=ON L27 OR L29  
L35          2216 SEA ABB=ON PLU=ON L19 OR L20 OR L21 OR L23  
L36          3709 SEA ABB=ON PLU=ON (SKIN# OR SKIN CELL# OR SKIN CELL PIGMENT?  
              OR HAIR) (2A) LIGHTEN?  
L37          8956 SEA ABB=ON PLU=ON (SKIN# OR SKIN CELL# OR HAIR) (L)  
              PENETRAT?  
L38          145408 SEA ABB=ON PLU=ON TOPICAL OR TRANSDERM? OR EPIDERM?  
L39          8036 SEA ABB=ON PLU=ON HAIR (2A) (DYE OR DYING OR COLOR?)  
L40          1 SEA ABB=ON PLU=ON PIGMENT? OXIDAT? (2A) (HAIR OR HAIR CELL#)

E HAIR PREPARATIONS/CT  
E E3+ALL

L41          19579 SEA ABB=ON PLU=ON "HAIR PREPARATIONS"+OLD/CT

E OXIDATION/CT  
 E E3+ALL  
 L42 248316 SEA ABB=ON PLU=ON (OXIDATION/CT OR "OXIDATION (L) BIOCHEM."/C  
 T OR "OXIDATION (L) BIOL."/CT)  
 L43 310 SEA ABB=ON PLU=ON PIGMENT? (L) L42  
 E COSMETICS/CT  
 E E3+ALL  
 L44 58599 SEA ABB=ON PLU=ON (COSMETICS/CT OR "COSMETICS AND PERSONAL  
 CARE PRODUCTS"/CT)  
 L45 3555 SEA ABB=ON PLU=ON SKIN LIGHTEN?  
 L46 40 SEA ABB=ON PLU=ON HAIR LIGHTEN?  
 L47 1389 SEA ABB=ON PLU=ON L35 (L) (PCP OR COS OR BIOL OR PROC)/RL  
 L48 1 SEA ABB=ON PLU=ON L47 AND (L36 OR L37)  
 L49 1 SEA ABB=ON PLU=ON L47 AND (L45 OR L46)  
 L50 0 SEA ABB=ON PLU=ON L47 AND (L40 OR L43)  
 L51 0 SEA ABB=ON PLU=ON L47 AND L39  
 L52 1 SEA ABB=ON PLU=ON L47 AND L41  
 L53 57 SEA ABB=ON PLU=ON L47 AND L42  
 L54 1 SEA ABB=ON PLU=ON L53 AND L44  
 L55 1 SEA ABB=ON PLU=ON L35 AND (L36 OR L37)  
 L56 1 SEA ABB=ON PLU=ON L35 AND (L45 OR L46)  
 L57 3 SEA ABB=ON PLU=ON L35 AND L44  
 D SCAN TI HIT  
 D SCAN L48  
 L58 0 SEA ABB=ON PLU=ON L35 AND (L43 OR L40)  
 L59 3 SEA ABB=ON PLU=ON L35 AND L38  
 D TI 1-3  
 D TI KWIC 1-3  
 L60 3 SEA ABB=ON PLU=ON (L48 OR L49) OR L52 OR (L54 OR L55 OR L56  
 OR L57)  
 L61 36 SEA ABB=ON PLU=ON PENETRANT (5W) (HAIR OR SKIN)  
 L62 0 SEA ABB=ON PLU=ON L61 AND L35  
 L63 146 SEA ABB=ON PLU=ON PIGMENT OXIDAT?  
 L64 0 SEA ABB=ON PLU=ON L35 AND L63  
 L65 114264 SEA ABB=ON PLU=ON (L25 OR L34 OR L33)  
 L66 412 SEA ABB=ON PLU=ON L65 (L) L35  
 L67 1 SEA ABB=ON PLU=ON L66 AND ((L36 OR L37 OR L38 OR L39 OR  
 L40))  
 L68 1 SEA ABB=ON PLU=ON L66 AND (L43 OR L45 OR L46 OR L61 OR L63)  
 L69 1 SEA ABB=ON PLU=ON L67 OR L68  
 L70 3 SEA ABB=ON PLU=ON L69 OR L57  
 SAVE TEMP L70 SRI778HCAP/A  
 L71 16 SEA ABB=ON PLU=ON BELINKY P?/AU  
 L72 8 SEA ABB=ON PLU=ON LASSER H?/AU  
 L73 76 SEA ABB=ON PLU=ON DOSORETZ C?/AU  
 L74 91 SEA ABB=ON PLU=ON (L71 OR L72 OR L73)  
 L75 32 SEA ABB=ON PLU=ON L74 AND L35  
 L76 1 SEA ABB=ON PLU=ON L75 AND (L45 OR L46)  
 L77 0 SEA ABB=ON PLU=ON L75 AND L39  
 SAVE TEMP L76 SRI778HCAIN/A

FILE 'BIOSIS, BIOTECHNO, SCISEARCH' ENTERED AT 16:56:13 ON 29 JAN 2008

L78 3312 SEA ABB=ON PLU=ON L20 OR L21 OR L23  
 L79 0 SEA ABB=ON PLU=ON L78 AND (L36 OR L37)  
 L80 0 SEA ABB=ON PLU=ON L78 AND (L45 OR L46)  
 L81 0 SEA ABB=ON PLU=ON L78 AND L39  
 L82 0 SEA ABB=ON PLU=ON L78 AND (L40 OR L43)  
 L83 0 SEA ABB=ON PLU=ON L76  
 L84 0 SEA ABB=ON PLU=ON (L79 OR L80 OR L81)

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\*\*\*\*\* INVENTOR RESULTS \*\*\*\*\*

=> d his 176

(FILE 'HCAPLUS' ENTERED AT 16:23:54 ON 29 JAN 2008)  
L76 1 S L75 AND (L45 OR L46)

=> d que 176

L2	1 SEA FILE=REGISTRY ABB=ON	PLU=ON	LIGNIN PEROXIDASE/CN
L3	1 SEA FILE=REGISTRY ABB=ON	PLU=ON	42613-30-9/RN
L4	1 SEA FILE=REGISTRY ABB=ON	PLU=ON	L2 OR L3
L19	1763 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L4
L20	1746 SEA FILE=HCAPLUS ABB=ON	PLU=ON	(LIGNIN PEROXIDASE OR LIGNIN PEROXIDASE ENZYME#)
L21	52 SEA FILE=HCAPLUS ABB=ON	PLU=ON	LIGNIN (W)MODIF? ENZYME OR LIGNIN MODIF? (W)ENZYME
L23	38 SEA FILE=HCAPLUS ABB=ON	PLU=ON	ISOENZYME (W) (H1 OR H2)
L35	2216 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L19 OR L20 OR L21 OR L23
L45	3555 SEA FILE=HCAPLUS ABB=ON	PLU=ON	SKIN LIGHTEN?
L46	40 SEA FILE=HCAPLUS ABB=ON	PLU=ON	HAIR LIGHTEN?
L71	16 SEA FILE=HCAPLUS ABB=ON	PLU=ON	BELINKY P?/AU
L72	8 SEA FILE=HCAPLUS ABB=ON	PLU=ON	LASSEN H?/AU
L73	76 SEA FILE=HCAPLUS ABB=ON	PLU=ON	DOSORETZ C?/AU
L74	91 SEA FILE=HCAPLUS ABB=ON	PLU=ON	(L71 OR L72 OR L73)
L75	32 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L74 AND L35
L76	1 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L75 AND (L45 OR L46)

=> d his 183

(FILE 'BIOSIS, BIOTECHNO, SCISEARCH' ENTERED AT 16:56:13 ON 29 JAN 2008)  
L83 0 S L76

=> d que 183

L2	1 SEA FILE=REGISTRY ABB=ON	PLU=ON	LIGNIN PEROXIDASE/CN
L3	1 SEA FILE=REGISTRY ABB=ON	PLU=ON	42613-30-9/RN
L4	1 SEA FILE=REGISTRY ABB=ON	PLU=ON	L2 OR L3
L19	1763 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L4
L20	1746 SEA FILE=HCAPLUS ABB=ON	PLU=ON	(LIGNIN PEROXIDASE OR LIGNIN PEROXIDASE ENZYME#)
L21	52 SEA FILE=HCAPLUS ABB=ON	PLU=ON	LIGNIN (W)MODIF? ENZYME OR LIGNIN MODIF? (W)ENZYME
L23	38 SEA FILE=HCAPLUS ABB=ON	PLU=ON	ISOENZYME (W) (H1 OR H2)
L35	2216 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L19 OR L20 OR L21 OR L23
L45	3555 SEA FILE=HCAPLUS ABB=ON	PLU=ON	SKIN LIGHTEN?
L46	40 SEA FILE=HCAPLUS ABB=ON	PLU=ON	HAIR LIGHTEN?
L71	16 SEA FILE=HCAPLUS ABB=ON	PLU=ON	BELINKY P?/AU
L72	8 SEA FILE=HCAPLUS ABB=ON	PLU=ON	LASSEN H?/AU
L73	76 SEA FILE=HCAPLUS ABB=ON	PLU=ON	DOSORETZ C?/AU
L74	91 SEA FILE=HCAPLUS ABB=ON	PLU=ON	(L71 OR L72 OR L73)
L75	32 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L74 AND L35
L76	1 SEA FILE=HCAPLUS ABB=ON	PLU=ON	L75 AND (L45 OR L46)
L83	0 SEA L76		

=> d 176 ibib ab

L76 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2004:513473 HCAPLUS Full-text

DOCUMENT NUMBER: 141:59251  
 TITLE: Methods of producing lignin peroxidase and its use in skin and hair lightening  
 INVENTOR(S): Belinky, Paula; Lesser, Haim;  
 Dosoretz, Carlos  
 PATENT ASSIGNEE(S): R.B.T (Rakuto Bio Technologies) Ltd., Israel  
 SOURCE: PCT Int. Appl., 71 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004052275	A2	20040624	WO 2003-IL1055	20031211
WO 2004052275	A3	20040930		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, RU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003286410	A1	20040630	AU 2003-286410	20031211
EP 1583512	A2	20051012	EP 2003-777155	20031211
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1747712	A	20060315	CN 2003-80109673	20031211
JP 2006514943	T	20060518	JP 2004-558336	20031211
US 2006051305	A1	20060309	US 2005-538778	20050610
IN 2005CN01543	A	20070223	IN 2005-CN1543	20050707
PRIORITY APPLN. INFO.:			US 2002-432678P	P 20021212
			WO 2003-IL1055	W 20031211

AB Methods of producing lignin peroxidase (LIP) are provided. Also provided are methods and cosmetic compns. suitable for skin and hair lightening as well as kits and an article-of manufacturing including active ingredients for skin and hair lightening. Examples are given for purification of LIP from *Phanerochaete chrysosporium*, optimization of melanin in an aqueous phase oxidation using purified LIP, and in vivo skin and hair lightening by purified LIP H1 isoenzyme in a cream formulation.

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\*\*\*\*\* QUERY RESULTS \*\*\*\*\*

=> d his 170

(FILE 'HCAPLUS' ENTERED AT 16:23:54 ON 29 JAN 2008)  
L70 3 S L69 OR L57

=> d que 170

L2 1 SEA FILE=REGISTRY ABB=ON PLU=ON LIGNIN PEROXIDASE/CN  
L3 1 SEA FILE=REGISTRY ABB=ON PLU=ON 42613-30-9/RN  
L4 1 SEA FILE=REGISTRY ABB=ON PLU=ON L2 OR L3  
L5 1 SEA FILE=REGISTRY ABB=ON PLU=ON VERATRYL ALCOHOL/CN  
L6 1 SEA FILE=REGISTRY ABB=ON PLU=ON 93-03-8/RN  
L7 1 SEA FILE=REGISTRY ABB=ON PLU=ON L5 OR L6  
L8 1 SEA FILE=REGISTRY ABB=ON PLU=ON HYDROGEN PEROXIDE/CN  
L9 1 SEA FILE=REGISTRY ABB=ON PLU=ON 7722-84-1/RN  
L10 1 SEA FILE=REGISTRY ABB=ON PLU=ON L8 OR L9  
L11 1 SEA FILE=REGISTRY ABB=ON PLU=ON TRANSCUTOL/CN  
L12 1 SEA FILE=REGISTRY ABB=ON PLU=ON 111-90-0/RN  
L13 1 SEA FILE=REGISTRY ABB=ON PLU=ON L11 OR L12  
L15 1 SEA FILE=REGISTRY ABB=ON PLU=ON 25265-75-2  
L16 1 SEA FILE=REGISTRY ABB=ON PLU=ON MANGANESE PEROXIDE/CN  
L17 1 SEA FILE=REGISTRY ABB=ON PLU=ON 101395-74-8/RN  
L18 1 SEA FILE=REGISTRY ABB=ON PLU=ON L16 OR L17  
L19 1763 SEA FILE=HCAPLUS ABB=ON PLU=ON L4  
L20 1746 SEA FILE=HCAPLUS ABB=ON PLU=ON (LIGNIN PEROXIDASE OR LIGNIN  
PEROXIDASE ENZYME#)  
L21 52 SEA FILE=HCAPLUS ABB=ON PLU=ON LIGNIN (W)MODIF? ENZYME OR  
LIGNIN MODIF? (W)ENZYME  
L23 38 SEA FILE=HCAPLUS ABB=ON PLU=ON ISOENZYME (W) (H1 OR H2)  
L24 1159 SEA FILE=HCAPLUS ABB=ON PLU=ON L7  
L25 671 SEA FILE=HCAPLUS ABB=ON PLU=ON L24 AND VERATRYL ALCOHOL  
L27 101674 SEA FILE=HCAPLUS ABB=ON PLU=ON L10 AND HYDROGEN PEROXIDE  
L28 52 SEA FILE=HCAPLUS ABB=ON PLU=ON L18  
L29 51 SEA FILE=HCAPLUS ABB=ON PLU=ON L28 AND MANGANESE PEROXIDE  
L31 380 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND TRANSCUTOL  
L32 11695 SEA FILE=HCAPLUS ABB=ON PLU=ON BUTYLENE GLYCOL OR L15  
L33 12051 SEA FILE=HCAPLUS ABB=ON PLU=ON L31 OR L32  
L34 101719 SEA FILE=HCAPLUS ABB=ON PLU=ON L27 OR L29  
L35 2216 SEA FILE=HCAPLUS ABB=ON PLU=ON L19 OR L20 OR L21 OR L23  
L36 3709 SEA FILE=HCAPLUS ABB=ON PLU=ON (SKIN# OR SKIN CELL# OR SKIN  
CELL PIGMENT? OR HAIR) (2A) LIGHTEN?  
L37 8956 SEA FILE=HCAPLUS ABB=ON PLU=ON (SKIN# OR SKIN CELL# OR  
HAIR) (L) PENETRAT?  
L38 145408 SEA FILE=HCAPLUS ABB=ON PLU=ON TOPICAL OR TRANSDERM? OR  
EPIDERM?  
L39 8036 SEA FILE=HCAPLUS ABB=ON PLU=ON HAIR (2A) (DYE OR DYING OR  
COLOR?)  
L40 1 SEA FILE=HCAPLUS ABB=ON PLU=ON PIGMENT? OXIDAT? (2A) (HAIR  
OR HAIR CELL#)  
L42 248316 SEA FILE=HCAPLUS ABB=ON PLU=ON (OXIDATION/CT OR "OXIDATION  
(L) BIOCHEM."/CT OR "OXIDATION (L) BIOL."/CT)  
L43 310 SEA FILE=HCAPLUS ABB=ON PLU=ON PIGMENT? (L) L42  
L44 58599 SEA FILE=HCAPLUS ABB=ON PLU=ON (COSMETICS/CT OR "COSMETICS  
AND PERSONAL CARE PRODUCTS"/CT)  
L45 3555 SEA FILE=HCAPLUS ABB=ON PLU=ON SKIN LIGHTEN?  
L46 40 SEA FILE=HCAPLUS ABB=ON PLU=ON HAIR LIGHTEN?  
L57 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L35 AND L44  
L61 36 SEA FILE=HCAPLUS ABB=ON PLU=ON PENETRANT (5W) (HAIR OR SKIN)

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L63 146 SEA FILE=HCAPLUS ABB=ON PLU=ON PIGMENT OXIDAT?  
L65 114264 SEA FILE=HCAPLUS ABB=ON PLU=ON (L25 OR L34 OR L33)  
L66 412 SEA FILE=HCAPLUS ABB=ON PLU=ON L65 (L) L35  
L67 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L66 AND ((L36 OR L37 OR L38  
OR L39 OR L40))  
L68 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L66 AND (L43 OR L45 OR L46 OR  
L61 OR L63)  
L69 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L67 OR L68  
L70 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L69 OR L57

=> d his 184

(FILE 'BIOSIS, BIOTECHNO, SCISEARCH' ENTERED AT 16:56:13 ON 29 JAN 2008)  
L84 0 S L79-L81

=> d que 184

L20 1746 SEA FILE=HCAPLUS ABB=ON PLU=ON (LIGNIN PEROXIDASE OR LIGNIN  
PEROXIDASE ENZYME#)  
L21 52 SEA FILE=HCAPLUS ABB=ON PLU=ON LIGNIN (W)MODIF? ENZYME OR  
LIGNIN MODIF? (W)ENZYME  
L23 38 SEA FILE=HCAPLUS ABB=ON PLU=ON ISOENZYME (W) (H1 OR H2)  
L36 3709 SEA FILE=HCAPLUS ABB=ON PLU=ON (SKIN# OR SKIN CELL# OR SKIN  
CELL PIGMENT? OR HAIR) (2A) LIGHTEN?  
L37 8956 SEA FILE=HCAPLUS ABB=ON PLU=ON (SKIN# OR SKIN CELL# OR  
HAIR) (L) PENETRAT?  
L39 8036 SEA FILE=HCAPLUS ABB=ON PLU=ON HAIR (2A) (DYE OR DYING OR  
COLOR?)  
L45 3555 SEA FILE=HCAPLUS ABB=ON PLU=ON SKIN LIGHTEN?  
L46 40 SEA FILE=HCAPLUS ABB=ON PLU=ON HAIR LIGHTEN?  
L78 3312 SEA L20 OR L21 OR L23  
L79 0 SEA L78 AND (L36 OR L37)  
L80 0 SEA L78 AND (L45 OR L46)  
L81 0 SEA L78 AND L39  
L84 0 SEA (L79 OR L80 OR L81)

=> d 170 1-3 ibib ed ab hitind

L70 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2006:908269 HCAPLUS Full-text  
DOCUMENT NUMBER: 145:298820  
TITLE: Composition for decoloring melanin for improving  
freckle  
INVENTOR(S): Kim, Eun Ki  
PATENT ASSIGNEE(S): Inha University, S. Korea  
SOURCE: Repub. Korean Kongkiae Taeho Kongbo, No pp. given  
CODEN: KRXXA7  
DOCUMENT TYPE: Patent  
LANGUAGE: Korean  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
KR 2005041181	A	20050504	KR 2003-76245	20031030
PRIORITY APPLN. INFO.: KR 2003-76245 20031030				
ED Entered STN: 06 Sep 2006				

AB A composition for decoloring melanin being capable of using whitening material of functional cosmetics, being useful for materials improving diseases such as freckling and so on is provided. The composition for decoloring melanin contains: one or more mediators selected from a group comprising TBHQ (tert-butylhydroquinone), vitamin C, sodium ascorbyl phosphate, magnesium ascorbyl phosphate, kojic acid, licorice extract and arbutin, hydroquinone- $\beta$ -glucopyranoside; one or more enzyme decoloring melanins selected from a group comprising laccase, lignin peroxidase, manganese peroxidase, horseradish peroxidase and sweet potato peroxidase as effective component.

ICM A61K007-48

CC 62-4 (Essential Oils and Cosmetics)

IT Cosmetics

(composition for decoloring melanin and lightening freckles)

IT 9003-99-0, Peroxidase 42613-30-9, Lignin peroxidase 80498-15-3, Laccase 114995-15-2, Manganese peroxidase

RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(composition for decoloring melanin and lightening freckles)

L70 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:513473 HCAPLUS Full-text

DOCUMENT NUMBER: 141:59251

TITLE: Methods of producing lignin peroxidase and its use in skin and hair lightening

INVENTOR(S): Belinky, Paula; Lasser, Haim; Dosoretz, Carlos

PATENT ASSIGNEE(S): R.B.T (Rakuto Bio Technologies) Ltd., Israel

SOURCE: PCT Int. Appl., 71 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004052275	A2	20040624	WO 2003-IL1055	20031211
WO 2004052275	A3	20040930		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003286410	A1	20040630	AU 2003-286410	20031211
EP 1583512	A2	20051012	EP 2003-777155	20031211
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1747712	A	20060315	CN 2003-80109673	20031211
JP 2006514943	T	20060518	JP 2004-558336	20031211
US 2006051305	A1	20060309	US 2005-538778	20050610
IN 2005CN01543	A	20070223	IN 2005-CN1543	20050707
PRIORITY APPLN. INFO.:			US 2002-432678P	P 20021212
			WO 2003-IL1055	W 20031211

ED Entered STN: 25 Jun 2004

AB Methods of producing lignin peroxidase (LIP) are provided. Also provided are methods and cosmetic compns. suitable for skin and hair lightening as well as kits and an article-of manufacturing including active ingredients for skin and hair lightening. Examples are given for purification of LIP from *Phanerochaete chrysosporium*, optimization of melanin in an aqueous phase oxidation using purified LIP, and in vivo skin and hair lightening by purified LIP H1 isoenzyme in a cream formulation.

IC ICM A61K

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 16

ST lignin peroxidase purifn skin hair  
lightening

IT Hair preparations

Oxidation

*Phanerochaete chrysosporium*  
(producing lignin peroxidase and its use in  
skin and hair lightening)

IT Amines, biological studies

RL: COS (Cosmetic use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)  
(producing lignin peroxidase and its use in  
skin and hair lightening)

IT Cosmetics

(skin-lightening; producing lignin  
peroxidase and its use in skin and hair  
lightening)

IT 9005-53-2, Lignin, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(-modifying enzymes; producing lignin peroxidase  
and its use in skin and hair lightening)

IT 42613-30-9P, Lignin peroxidase

RL: BCP (Biochemical process); COS (Cosmetic use); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation); PROC (Process);  
USES (Uses)  
(isoenzymes H1 or H21; producing lignin  
peroxidase and its use in skin and hair  
lightening)

IT 56-81-5, Glycerol, processes 7722-84-1, Hydrogen  
peroxide, processes

RL: BCP (Biochemical process); BIOL (Biological study); PROC (Process)  
(producing lignin peroxidase and its use in  
skin and hair lightening)

IT 111-90-0, Transcutol 25265-75-2,  
Butylene glycol

RL: COS (Cosmetic use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)  
(producing lignin peroxidase and its use in  
skin and hair lightening)

L70 ANSWER 3 OF 3 HCPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:798405 HCPLUS Full-text

DOCUMENT NUMBER: 1351:340845

TITLE: Enzyme variants with decreased immunogenicity having  
one or more D-amino acid substitutions and their use  
in cleaning and personal care compositions

INVENTOR(S): Weisgerber, David John

PATENT ASSIGNEE(S): Procter + Gamble Company, USA

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001081556	A2	20011101	WO 2001-US13061	20010423
WO 2001081556	A3	20020718		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2003170846	A1	20030911	US 2001-824607	20010402
EP 1276871	A2	20030122	EP 2001-928770	20010423
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003530881	T	20031021	JP 2001-578627	20010423
MX 2002PA10469	A	20030425	MX 2002-PA10469	20021023
PRIORITY APPLN. INFO.:			US 2000-199415P	P 20000424
			WO 2001-US13061	W 20010423

ED Entered STN: 02 Nov 2001

AB The present invention relates to enzyme variants having decreased immunogenicity relative to their corresponding wild-type enzymes. More particularly, the present invention relates to enzyme variants having a modified amino acid sequence of a wild-type amino acid sequence, wherein the modified amino acid sequence comprises a substitution of one or more amino acid positions with at least one D-amino acid. The invention further relates to mutant genes encoding such enzyme variants and cleaning and personal care compns. comprising such enzyme variants.

IC ICM C12N009-00

CC 7-5 (Enzymes)

Section cross-reference(s): 3, 46, 62

IT Cosmetics

(cleansing; enzyme variants with decreased immunogenicity having D-amino acid substitutions and their use in cleaning and personal care compns.)

IT Bath preparations

Cosmetics

Epitopes

Mutagenesis

Protein engineering

(enzyme variants with decreased immunogenicity having D-amino acid substitutions and their use in cleaning and personal care compns.)

IT Cosmetics

(moisturizers; enzyme variants with decreased immunogenicity having D-amino acid substitutions and their use in cleaning and personal care compns.)

IT 9000-92-4P, Amylase 9001-54-1P, Hyaluronidase 9001-62-1P, Lipase 9001-92-7P, Protease 9002-10-2P, Phenoloxidase 9003-99-0P, Peroxidase 9012-54-8P, Cellulase 9013-19-8P, Isomerase 9013-79-0P, Esterase 9013-93-8P, Phospholipase 9025-56-3P, Hemicellulase 9025-71-2P, Tannase 9029-60-1P, Lipoxygenase 9031-56-5P, Ligase 9032-75-1P, Pectinase 9035-73-8P, Oxidase 9037-80-3P, Reductase 9047-61-4P, Transferase 9055-04-3P, Lyase 9067-74-7P, Arabinosidase 9068-42-2P, Pentosanase 9074-98-0P,  $\beta$ -Glucanase 9075-68-7P, Pullulanase

10/538778

37259-58-8P, Serine protease 37278-89-0P, Xylanase 37326-33-3P,  
Chondroitinase 37341-53-0P, Keratinase 39450-01-6P, Proteinase K  
42613-30-9P, Ligninase 51377-41-4P, Cutinase 69772-87-8P,  
Thermitase 80498-15-3P, Laccase  
RL: BPN (Biosynthetic preparation); BUU (Biological use, unclassified);  
NUU (Other use, unclassified); PRP (Properties); BIOL (Biological study);  
PREP (Preparation); USES (Uses)  
(enzyme variants with decreased immunogenicity having D-amino acid  
substitutions and their use in cleaning and personal care compns.)

=> d his nofile

(FILE 'HOME' ENTERED AT 16:16:03 ON 29 JAN 2008)

FILE 'HCAPLUS' ENTERED AT 16:16:17 ON 29 JAN 2008  
 L1       1 SEA ABB=ON PLU=ON US20060051305/PN  
         D IBIB AB IT

FILE 'REGISTRY' ENTERED AT 16:17:17 ON 29 JAN 2008  
 L2       1 SEA ABB=ON PLU=ON LIGNIN PEROXIDASE/CN  
         D RN  
 L3       1 SEA ABB=ON PLU=ON 42613-30-9/RN  
 L4       1 SEA ABB=ON PLU=ON L2 OR L3  
 L5       1 SEA ABB=ON PLU=ON VERATRYL ALCOHOL/CN  
 L6       1 SEA ABB=ON PLU=ON 93-03-8/RN  
 L7       1 SEA ABB=ON PLU=ON L5 OR L6  
 L8       1 SEA ABB=ON PLU=ON HYDROGEN PEROXIDE/CN  
 L9       1 SEA ABB=ON PLU=ON 7722-84-1/RN  
 L10      1 SEA ABB=ON PLU=ON L8 OR L9  
 L11      1 SEA ABB=ON PLU=ON TRANSCUTOL/CN  
 L12      1 SEA ABB=ON PLU=ON 111-90-0/RN  
 L13      1 SEA ABB=ON PLU=ON L11 OR L12  
 L14      3 SEA ABB=ON PLU=ON BUTYLENE GLYCOL/CN  
 L15      1 SEA ABB=ON PLU=ON 25265-75-2  
 L16      1 SEA ABB=ON PLU=ON MANGANESE PEROXIDE/CN  
 L17      1 SEA ABB=ON PLU=ON 101395-74-8/RN  
 L18      1 SEA ABB=ON PLU=ON L16 OR L17

FILE 'HCAPLUS' ENTERED AT 16:23:54 ON 29 JAN 2008  
 L19      1763 SEA ABB=ON PLU=ON L4  
 L20      1746 SEA ABB=ON PLU=ON (LIGNIN PEROXIDASE OR LIGNIN PEROXIDASE  
         ENZYME#)  
 L21      52 SEA ABB=ON PLU=ON LIGNIN (W)MODIF? ENZYME OR LIGNIN MODIF?  
         (W) ENZYME  
 L22      0 SEA ABB=ON PLU=ON LIGNIN OXIDOREDUCTASE  
 L23      38 SEA ABB=ON PLU=ON ISOENZYME (W) (H1 OR H2)  
 L24      1159 SEA ABB=ON PLU=ON L7  
 L25      671 SEA ABB=ON PLU=ON L24 AND VERATRYL ALCOHOL  
 L26      107664 SEA ABB=ON PLU=ON L10  
 L27      101674 SEA ABB=ON PLU=ON L10 AND HYDROGEN PEROXIDE  
 L28      52 SEA ABB=ON PLU=ON L18  
 L29      51 SEA ABB=ON PLU=ON L28 AND MANGANESE PEROXIDE  
 L30      3621 SEA ABB=ON PLU=ON L13  
 L31      380 SEA ABB=ON PLU=ON L13 AND TRANSCUTOL  
 L32      11695 SEA ABB=ON PLU=ON BUTYLENE GLYCOL OR L15  
 L33      12051 SEA ABB=ON PLU=ON L31 OR L32  
 L34      101719 SEA ABB=ON PLU=ON L27 OR L29  
 L35      2216 SEA ABB=ON PLU=ON L19 OR L20 OR L21 OR L23  
 L36      3709 SEA ABB=ON PLU=ON (SKIN# OR SKIN CELL# OR SKIN CELL PIGMENT?  
         OR HAIR) (2A) LIGHTEN?  
 L37      8956 SEA ABB=ON PLU=ON (SKIN# OR SKIN CELL# OR HAIR) (L)  
         PENETRAT?  
 L38      145408 SEA ABB=ON PLU=ON TOPICAL OR TRANSDERM? OR EPIDERM?  
 L39      8036 SEA ABB=ON PLU=ON HAIR (2A) (DYE OR DYING OR COLOR?)  
 L40      1 SEA ABB=ON PLU=ON PIGMENT? OXIDAT? (2A) (HAIR OR HAIR CELL#)

E HAIR PREPARATIONS/CT  
 E E3+ALL

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L41 19579 SEA ABB=ON PLU=ON "HAIR PREPARATIONS"+OLD/CT  
E OXIDATION/CT  
E E3+ALL  
L42 248316 SEA ABB=ON PLU=ON (OXIDATION/CT OR "OXIDATION (L) BIOCHEM."/C  
T OR "OXIDATION (L) BIOL."/CT)  
L43 310 SEA ABB=ON PLU=ON PIGMENT? (L) L42  
E COSMETICS/CT  
E E3+ALL  
L44 58599 SEA ABB=ON PLU=ON (COSMETICS/CT OR "COSMETICS AND PERSONAL  
CARE PRODUCTS"/CT)  
L45 3555 SEA ABB=ON PLU=ON SKIN LIGHTEN?  
L46 40 SEA ABB=ON PLU=ON HAIR LIGHTEN?  
L47 1389 SEA ABB=ON PLU=ON L35 (L) (PCP OR COS OR BIOL OR PROC)/RL  
L48 1 SEA ABB=ON PLU=ON L47 AND (L36 OR L37)  
L49 1 SEA ABB=ON PLU=ON L47 AND (L45 OR L46)  
L50 0 SEA ABB=ON PLU=ON L47 AND (L40 OR L43)  
L51 0 SEA ABB=ON PLU=ON L47 AND L39  
L52 1 SEA ABB=ON PLU=ON L47 AND L41  
L53 57 SEA ABB=ON PLU=ON L47 AND L42  
L54 1 SEA ABB=ON PLU=ON L53 AND L44  
L55 1 SEA ABB=ON PLU=ON L35 AND (L36 OR L37)  
L56 1 SEA ABB=ON PLU=ON L35 AND (L45 OR L46)  
L57 3 SEA ABB=ON PLU=ON L35 AND L44  
D SCAN TI HIT  
D SCAN L48  
L58 0 SEA ABB=ON PLU=ON L35 AND (L43 OR L40)  
L59 3 SEA ABB=ON PLU=ON L35 AND L38  
D TI 1-3  
D TI KWIC 1-3  
L60 3 SEA ABB=ON PLU=ON (L48 OR L49) OR L52 OR (L54 OR L55 OR L56  
OR L57)  
L61 36 SEA ABB=ON PLU=ON PENETRANT (5W) (HAIR OR SKIN)  
L62 0 SEA ABB=ON PLU=ON L61 AND L35  
L63 146 SEA ABB=ON PLU=ON PIGMENT OXIDAT?  
L64 0 SEA ABB=ON PLU=ON L35 AND L63  
L65 114264 SEA ABB=ON PLU=ON (L25 OR L34 OR L33)  
L66 412 SEA ABB=ON PLU=ON L65 (L) L35  
L67 1 SEA ABB=ON PLU=ON L66 AND ((L36 OR L37 OR L38 OR L39  
OR L40))  
L68 1 SEA ABB=ON PLU=ON L66 AND (L43 OR L45 OR L46 OR L61 OR L63)  
L69 1 SEA ABB=ON PLU=ON L67 OR L68  
L70 3 SEA ABB=ON PLU=ON L69 OR L57  
SAVE TEMP L70 SRI778HCAP/A  
L71 16 SEA ABB=ON PLU=ON BELINKY P?/AU  
L72 8 SEA ABB=ON PLU=ON LASER H?/AU  
L73 76 SEA ABB=ON PLU=ON DOSORETZ C?/AU  
L74 91 SEA ABB=ON PLU=ON (L71 OR L72 OR L73)  
L75 32 SEA ABB=ON PLU=ON L74 AND L35  
L76 1 SEA ABB=ON PLU=ON L75 AND (L45 OR L46)  
L77 0 SEA ABB=ON PLU=ON L75 AND L39  
SAVE TEMP L76 SRI778HCAIN/A

FILE 'BIOSIS, BIOTECHNO, SCISEARCH' ENTERED AT 16:56:13 ON 29 JAN 2008

L78 3312 SEA ABB=ON PLU=ON L20 OR L21 OR L23  
L79 0 SEA ABB=ON PLU=ON L78 AND (L36 OR L37)  
L80 0 SEA ABB=ON PLU=ON L78 AND (L45 OR L46)  
L81 0 SEA ABB=ON PLU=ON L78 AND L39  
L82 0 SEA ABB=ON PLU=ON L78 AND (L40 OR L43)  
L83 0 SEA ABB=ON PLU=ON L76  
L84 0 SEA ABB=ON PLU=ON (L79 OR L80 OR L81)

10/538778

FILE 'STNGUIDE' ENTERED AT 17:01:24 ON 29 JAN 2008  
D QUE L76  
D QUE L83

FILE 'HCAPLUS' ENTERED AT 17:03:02 ON 29 JAN 2008  
D L76 IBIB AB

FILE 'STNGUIDE' ENTERED AT 17:03:03 ON 29 JAN 2008  
D QUE L70  
D QUE L84

FILE 'HCAPLUS' ENTERED AT 17:03:42 ON 29 JAN 2008  
D L70 1-3 IBIB ED AB HITIND

FILE 'STNGUIDE' ENTERED AT 17:03:42 ON 29 JAN 2008